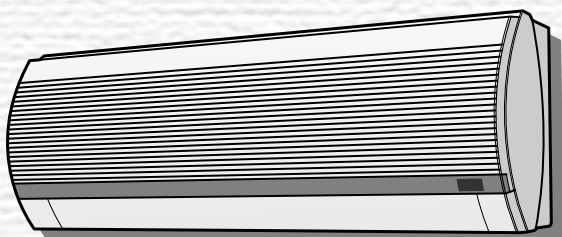


SHARP®

Eco inverter

Air Conditioner



- Uses ozone layer friendly reffridgerant R-410A.
- Verwendet das die Ozonschicht schonende Kühlmittel R-410A.
- Utilise un réfrigérant qui n'attaque pas la couche d'ozone, le R-410A.
- Utiliza refrigerante R-410A que no daña la capa de ozono.
- Utilizza il refrigerante R-410A che non danneggia il buco nell'ozono.
- Usa refrigerante R-410A amigo da camada de ozono.
- Χρησιμοποιεί ψυκτικό R-410A αβλαβές για το στρώμα του όζοντος.
- Gebruikt de ozon-vriendelijke koelvloeistof R-410A.
- Ozon tabakasına zarar vermeyen R-410A Soğutucu madde kullanılır.
- Использует охладитель R-410A безвредный для озонового слоя.

INDOOR UNIT
ZIMMERGERÄT
UNITE INTERIEURE
UNIDAD INTERIOR
UNITA' INTERNA
UNIDADE INTERIOR
ΕΣΩΤΕΡΙΚΗ ΣΥΣΚΕΥΗ
BINNEN-UNIT
İÇ ÜNİTE
ВНУТРЕННИЙ БЛОК

AY-XM7CR
AY-XM9CR
AY-XM12CR
AY-XPM7CR
AY-XPM9CR
AY-XPM12CR

OUTDOOR UNIT
AUSSENGERÄT
UNITE EXTERIEURE
UNIDAD EXTERIOR
UNITA' ESTERNA
UNIDADE EXTERIOR
ΕΞΩΤΕΡΙΚΗ ΣΥΣΚΕΥΗ
BUITEN-UNIT
DIŞ ÜNİTE
НАРУЖНИЙ БЛОК

AE-XM18CR
AE-XM24CR

MODELS

AY-XM7CR
AY-XM9CR
AY-XM12CR

Plasmacluster

AY-XPM7CR
AY-XPM9CR
AY-XPM12CR

MULTI SPLIT TYPE
ROOM AIR CONDITIONER

MEHRFACH-AUFTEILUNGS-
ZIMMER-KLIMAGERÄT

CLIMATISEUR DE SALLE
DE TYPE A DIVISION MULTIPLE

ACONDICIONADOR DE AIRE PARA
HABITACIÓN TIPO MULTI DIVISIÓN

TIPO A SEZIONE MULTIPLA
CONDIZIONATORE D ARIA PER
ABITAZIONI

AR CONDICIONADO DE SALA
DE MÚLTIPLAS UNIDADES

ΣΥΣΚΕΥΗ ΚΛΙΜΑΤΙΣΜΟΥ ΔΩΜΑΤΙΟΥ
ΠΟΛΛΑΠΛΟΥ ΔΙΑΙΡΟΥΜΕΝΟΥ ΤΥΠΟΥ

MULTI-SPLIT AIRCONDITIONER

MULTI-SPLIT KLİMA

КОМНАТНЫЙ КОНДИЦИОНЕР
ВОЗДУХА МНОГОБЛОЧНОГО
ТИПА

OPERATION MANUAL

BEDIENUNGSANLEITUNG

NOTICE D'UTILISATION

MANUAL DE INSTRUCCIONES

MANUALE DI ISTRUZIONE

MANUAL DE INSTRUÇÕES

ΕΓΧΕΙΡΙΔΙΟ ΛΕΙΤΟΥΡΓΙΑΣ

GEBRUIKSAANWIJZING

KULLANMA KILAVUZU

РУКОВОДСТВО ПО ЭКСПЛУАТАЦИИ

ENGLISH

DEUTSCH

FRANÇAIS

ESPAÑOL

ITALIANO

PORTUGUÊS

ΕΛΛΗΝΙΚΑ

NEDERLANDS

TÜRKÇE

РУССКИЙ

Thank you for purchasing a SHARP air conditioner. Please read this manual carefully before operating the product.

CONTENTS

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• PART NAMES	E-4	OPERATION	E-16
• SETTING DUST COLLECTING FILTER		• PLASMACLUSTER OPERATION	E-17
AND DEODORANT FILTER	E-7	• SELF CLEAN OPERATION	E-17
• USING THE REMOTE CONTROL	E-8	• AUXILIARY MODE	E-18
• BASIC OPERATION	E-10	• OPTION KIT	E-18
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PRECAUTIONS

WARNINGS FOR USE

- 1** Do not pull or deform the power supply cord. Pulling and misuse of the power supply cord can result in damage to the unit and cause electrical shock.
- 2** Be careful not to expose your body directly to the outlet air for a long time. It may affect your physical conditions.
- 3** When using the air conditioner for infants, children, elderly, bedridden, or disabled people make sure the room temperature is suitable for those in the room.
- 4** Never insert objects into the unit. Inserting objects can result in injury due to the high speed rotation of internal fans.
- 5** Ground the air conditioner without fail. Do not connect the grounding wire to gas pipe, water pipe, lightning rod or telephone grounding wire. Incomplete grounding may cause electric shock.
- 6** If anything is abnormal with the air conditioner (ex. a burning smell), stop the operation immediately and turn the circuit breaker OFF.
- 7** Follow local rules and regulations for power supply cord cabling. Improper cable connection can cause the power supply cord, plug and the electrical outlet to overheat and cause fire.
- 8** Use only the manufacture-specified power cord for replacement. Replacement should be performed by a qualified technician or a service person.

WARNINGS FOR INSTALLATION / REMOVAL / REPAIR

- Do not attempt to install/remove/repair the unit by yourself. Incorrect work will cause electric shock, water leak, fire etc. Consult your dealer or other qualified service personnel for the installation/removal/repair of the unit.



This equipment complies with the requirements of Directives 89/336/EEC and 73/23/EEC as amended by 93/68/EEC.

PRECAUTIONS

CAUTIONS FOR USE

- 1** Open a window or door periodically to ventilate the room, especially when using gas appliances. Insufficient ventilation may cause oxygen shortage.
- 2** Do not operate the buttons with wet hand. It may cause electric shock.
- 3** For safety, turn the circuit breaker off when not using the unit for an extended period of time.
- 4** Check the outdoor unit mounting rack periodically for wear and to make sure it is firmly in place.
- 5** Do not put anything on the outdoor unit nor step on it. The object or the person may fall down or drop, causing injury.
- 6** This unit is designed for residential use. Do not use for other applications such as in a kennel or greenhouse to raise animals or grow plants.
- 7** Do not place a vessel with water on the unit. If water penetrates into the unit, electrical insulations may deteriorate and cause electric shock.
- 8** Do not block the air inlets nor outlets of the unit. It may cause insufficient performance or troubles.
- 9** Be sure to stop the operation and turn the circuit breaker off before performing any maintenance or cleaning. A fan is rotating inside the unit and you may get injured.
- 10** Do not splash or pour water directly on the unit. Water can cause electrical shock or equipment damage.
- 11** This appliance is not intended for use by young children or infirm persons without supervision.
Young children should be supervised to ensure that they do not play with the appliance.

CAUTIONS FOR LOCATION / INSTALLATION

- Make sure to connect the air conditioner to power supply of the rated voltage and frequency.
Use of a power supply with improper voltage and frequency can result in equipment damage and possible fire.
- Do not install the unit in a place where inflammable gas may leak. It may cause fire.
Install the unit in a place with minimal dust, fumes and moisture in the air.
- Arrange the drain hose to ensure smooth drainage. Insufficient drainage may cause wetting of the room, furniture etc.
- Make sure a leak breaker or a circuit breaker is installed, depending on the installation location, to avoid electrical shock.

ADDITIONAL NOTES ON OPERATION

OPERATING TEMPERATURE RANGE

		INDOOR TEMP.	OUTDOOR TEMP.
COOLING	upper limit	32°C D.B. 23°C W.B.	43°C D.B. -
	lower limit	21°C D.B. 15°C W.B.	21°C D.B. -
HEATING	upper limit	27°C D.B. -	24°C D.B. 18°C W.B.
	lower limit	20°C D.B. -	-7°C D.B. -8°C W.B.

D.B. = Dry-bulb W.B. = Wet-bulb

- The built-in protective device may prevent the unit from operating when used out of this range.
- Condensation may form on the air outlet if the unit operates continuously in the COOL or DRY mode when humidity is over 80 percent.

WHEN POWER FAILURE OCCURS

This air conditioner has a memory function to store settings when a power failure occurs. After power recovery, the unit will automatically re-start in the same settings which were active before the power failure, except for timer settings. If the timers were set before a power failure, they will need to be re-set after power recovery.

PREHEATING FUNCTION

In the HEAT operation, the indoor fan may not start for two to five minutes after the unit is turned on to prevent cold air from blowing out of the unit.

DE-ICING FUNCTION

- When ice forms on the heat exchanger in the outdoor unit during the HEAT operation, an automatic de-icer provides heat for about 5 to 10 minutes to remove the ice. During de-icing, the inside and outside fans stop operating.
- After de-icing is completed, the unit automatically resumes operation in the HEAT mode.

HEATING EFFICIENCY

- The unit employs a heat pump that draws heat from the outside air and releases it into the room. The outside air temperature therefore greatly affects the heating efficiency.
- If the heating efficiency is reduced due to low outside temperatures, use an additional heater.
- It takes time to warm up and heat the entire room because of the forced air circulation system.

TIPS ON SAVING ENERGY

Below are some simple ways to save energy when you use your air conditioner.

SET THE CORRECT TEMPERATURE

- Setting the thermostat 1°C higher than the desired temperature in the COOL mode and 2°C lower in the HEAT mode will save approximately 10 percent in power consumption.
- Setting the temperature lower than necessary during cooling operation will result in increased power consumption.

BLOCK DIRECT SUNLIGHT AND PREVENT DRAFTS

- Blocking direct sunlight during cooling operation will reduce power consumption.
- Close the windows and doors during cooling and heating operations.

SET PROPER AIR FLOW DIRECTION TO OBTAIN THE BEST AIR CIRCULATION

KEEP FILTER CLEAN TO ENSURE THE MOST EFFICIENT OPERATION

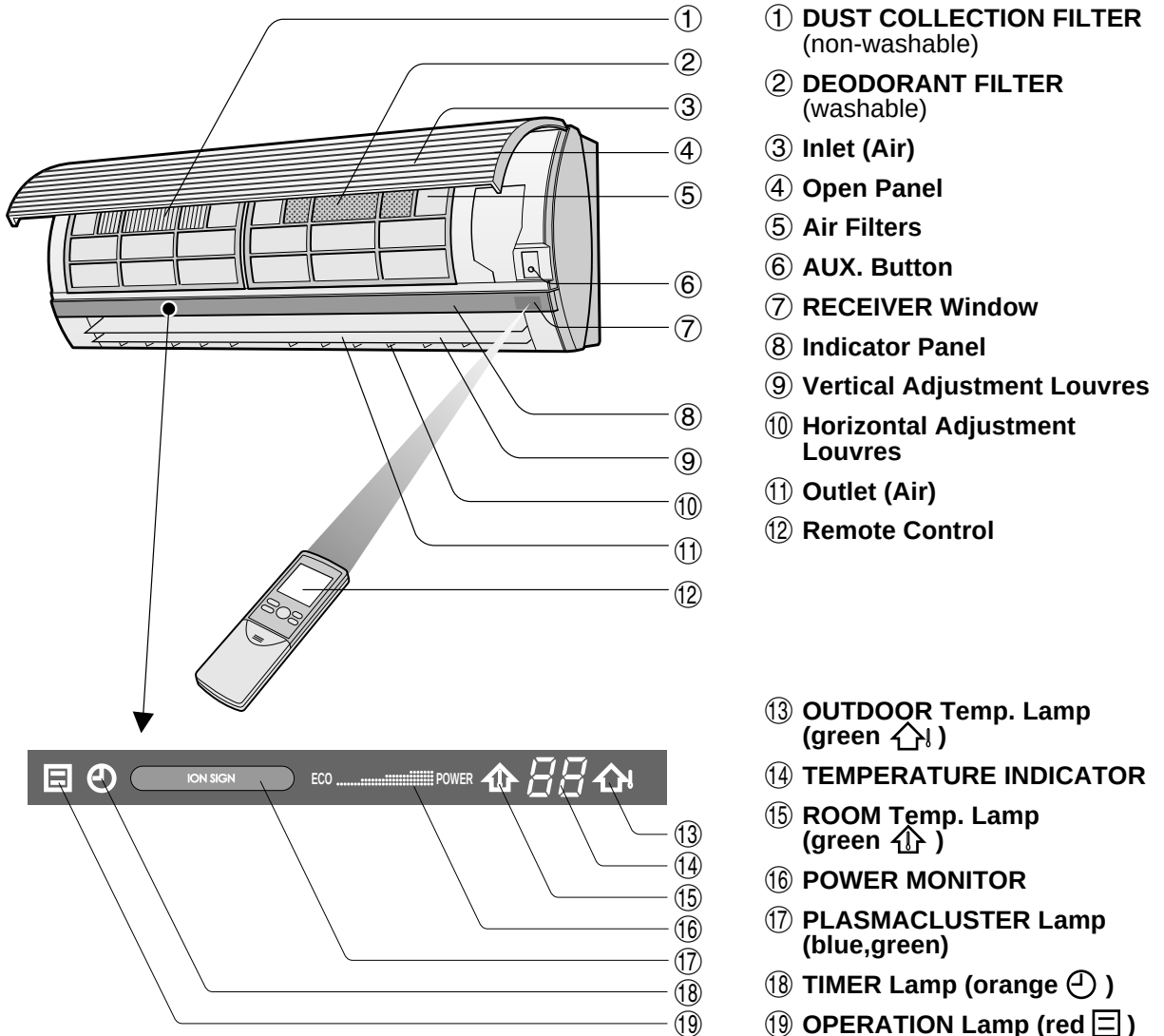
MAKE MOST OF THE TIMER OFF FUNCTION

DISCONNECT THE POWER CORD WHEN THE UNIT IS NOT USED FOR AN EXTENDED PERIOD OF TIME

- The indoor unit still consumes a small amount of power when it is not operating.

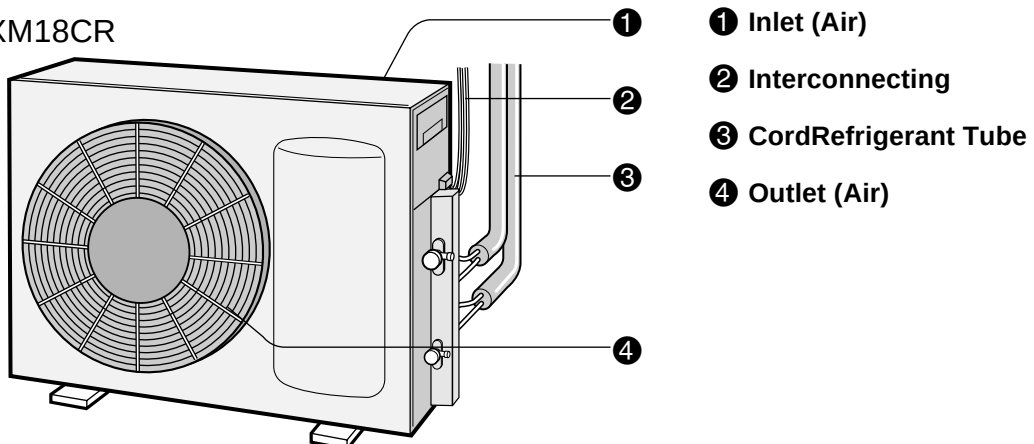
PART NAMES

INDOOR UNIT (For models AY-XPM7CR, AY-XPM9CR, AY-XPM12CR)



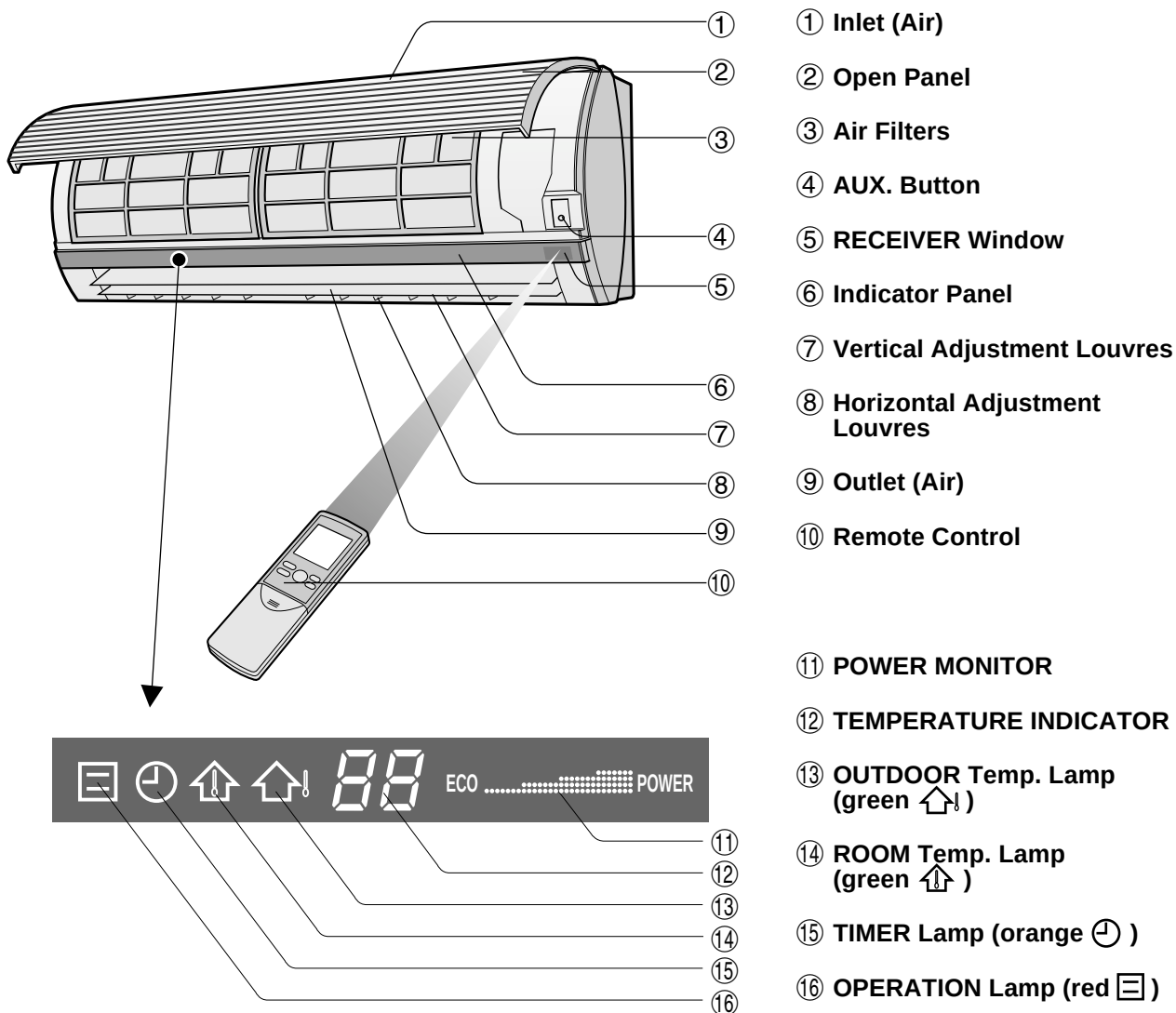
OUTDOOR UNIT

AE-XM18CR



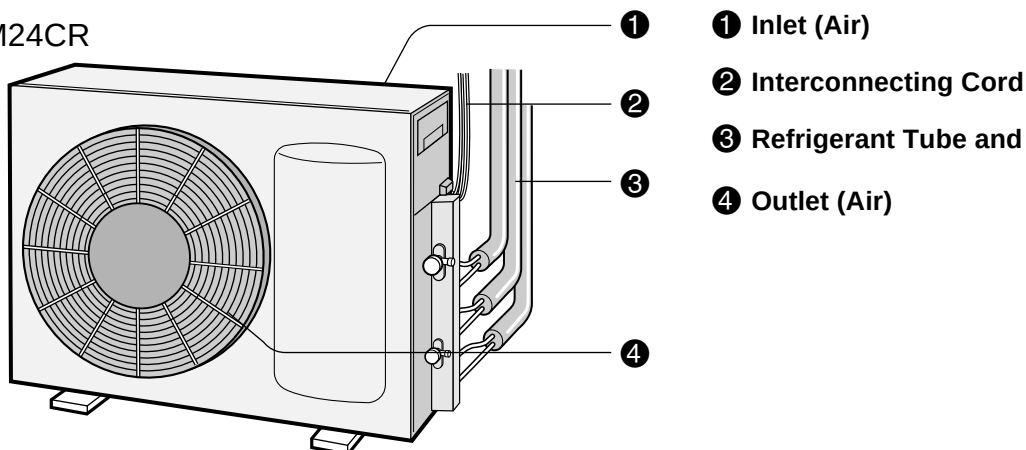
NOTE: Actual units might vary slightly from those shown above.

INDOOR UNIT (For models AY-XM7CR, AY-XM9CR, AY-XM12CR)



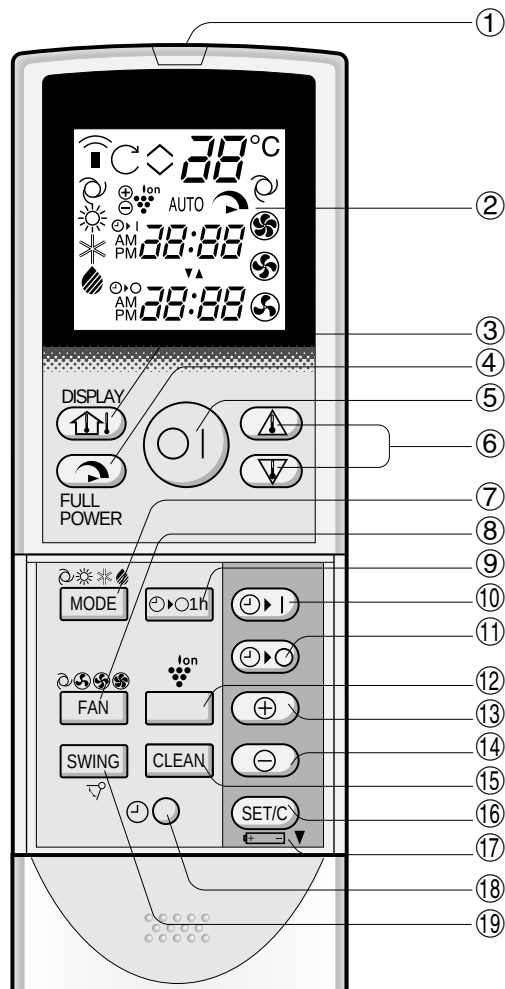
OUTDOOR UNIT

AE-XM24CR



PART NAMES

REMOTE CONTROL



- ① TRANSMITTER
- ② DISPLAY (Liquid Crystal Display)
- ③ DISPLAY Button
- ④ FULL POWER Button
- ⑤ ON/OFF Button
- ⑥ THERMO. (Thermostat) Button
- ⑦ MODE Button
- ⑧ FAN Button
- ⑨ ONE-HOUR OFF TIMER Button
- ⑩ TIMER ON Button (for setting the timer)
- ⑪ TIMER OFF Button (for setting the timer)
- ⑫ PLASMACLUSTER Button
(only for models AY-XPM7CR/AY-XPM9CR/AY-XPM12CR)
- ⑬ TIME ADVANCE Button
- ⑭ TIME REVERSE Button
- ⑮ SELF CLEAN Button
(only for models AY-XPM7CR/AY-XPM9CR/AY-XPM12CR)
- ⑯ TIMER SET/CANCEL Button
- ⑰ Indicates BATTERY COMPARTMENT is below this mark
- ⑱ CLOCK Button
- ⑲ SWING Button

L.C.D. REMOTE CONTROL DISPLAY

- ⑳ THERMOSTAT SETTING FOR AUTO AND DRY MODES
- ㉑ SELF CLEAN SYMBOL
(only for models AY-XPM7CR/AY-XPM9CR/AY-XPM12CR)

㉒ TRANSMITTING SYMBOL

㉓ MODE SYMBOLS

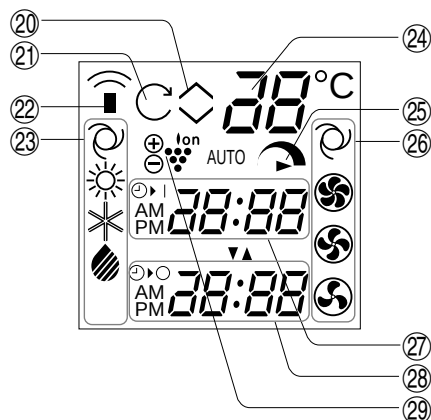
- | | |
|--|--|
|  : AUTO |  : DRY |
|  : HEAT |  : COOL |

㉔ TEMPERATURE INDICATOR

㉕ FULL POWER SYMBOL

㉖ FAN SPEED SYMBOLS

- | | |
|--|--|
|  : AUTO |  : LOW |
|  : HIGH |  : SOFT |



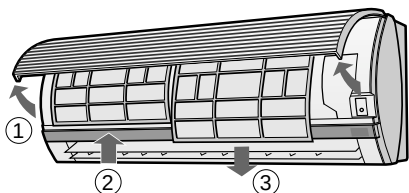
- ㉗ TIMER ON INDICATOR/CLOCK
Indicates the on timer preset time or current time.
- ㉘ TIMER OFF INDICATOR
Indicates the preset time for off timer or one-hour off timer.
- ㉙ PLASMACLUSTER SYMBOL
(only for models AY-XPM7CR/AY-XPM9CR/AY-XPM12CR)

SETTING DUST COLLECTION FILTER AND DEODORANT FILTER

(only for models AY-XPM7CR/AY-XPM9CR/AY-XPM12CR)

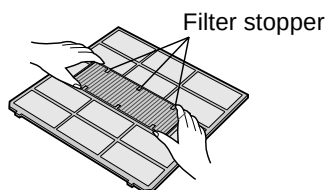
The dust collection filter and the deodorant filter are packed as accessory of this unit. During operation of the air conditioner, the filters remove dust and tobacco smoke from the air and discharges clean air.

ENGLISH

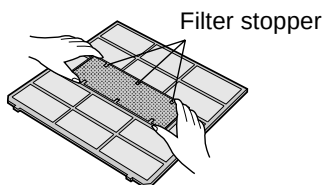


- 1** Take out the air filters.
 - ① Open the open panel.
 - ② Push the air filters up slightly to unlock them.
 - ③ Pull the air filters down to remove them.

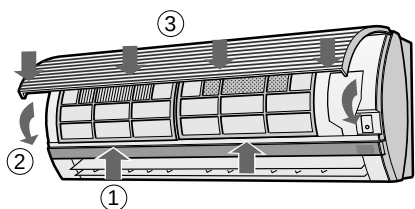
DUST COLLECTION FILTER (gray)
Set the black side facing upward.



DEODORANT FILTER (green)



- 2** Set the dust collection filter and the deodorant filter under the filter stoppers located on the air filter.



- 3** Reinstall the air filters
 - ① Reinstall the air filters in the original positions.
 - ② Close the open panel.
 - ③ Push the arrow-marked of the panel firmly to lock it in place.

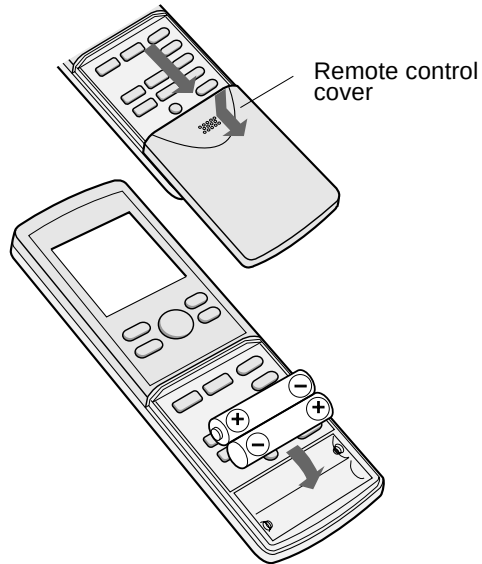
Precautions

- The filters are sealed in a plastic bag to keep their dust collection effect. Do not open the bag until using the filters. (Otherwise the filters life may get shorter.)
- Do not expose the filters to direct sunlight. (Otherwise they may deteriorate.)

USING THE REMOTE CONTROL

LOADING BATTERIES Use two size-AAA (R03) batteries.

- 1 Remove the remote control cover.
- 2 Insert batteries in the compartment, making sure the $\oplus$ and $\ominus$ polarities are correctly aligned.
 - The display indicates "AM 6:00" when batteries are properly installed.
- 3 Reinstall the cover.



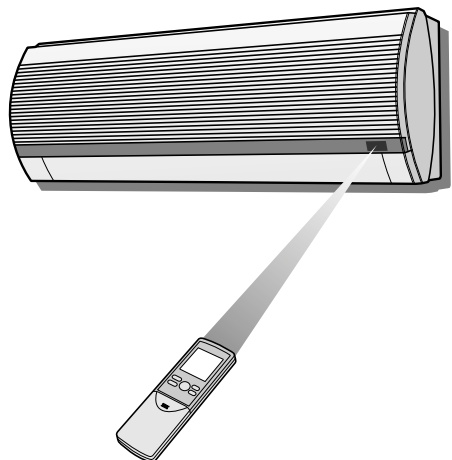
NOTES:

- The battery life is approximately one year in normal use.
- When you replace the batteries, always change both batteries, and make sure they are the same type.
- If the remote control does not operate properly after replacing the batteries, take out the batteries and reinstall them again after 30 seconds.
- If you will not be using the unit for a long time, remove the batteries from the remote control.

HOW TO USE THE REMOTE CONTROL

Point the remote control towards the unit's signal receiver window and press the desired button. The unit generates a beep when it receives the signal.

- Make sure there is no curtain or other object between the remote control and the unit.
- The remote control can send signals from up to 7 metres away.





CAUTION

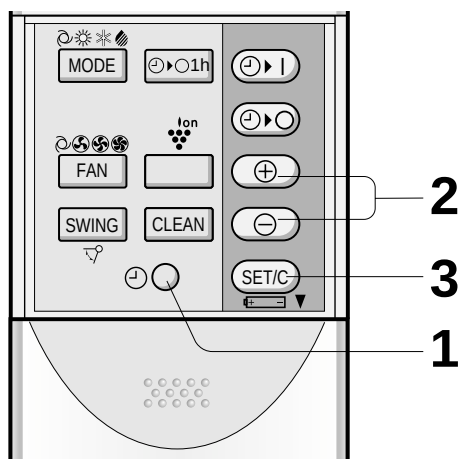
- Do not allow the signal receiver window to receive strong direct sunlight, since it can adversely affect its operation. If the signal receiver window is exposed to direct sunlight, close a curtain to block the light.
- Using a fluorescent lamp with a quick starter in the same room may interfere with transmission of the signal.
- The unit can be affected by signals transmitted from the remote control of a television, VCR or other equipment used in the same room.
- Do not leave the remote control in direct sunlight or near a heater. Also, protect the unit and remote control from moisture and shock which can discolour or damage them.

SET CURRENT CLOCK TIME

There are two clock modes: 12-hour mode and 24-hour mode.

Example: 5 o'clock in the afternoon

Clock	Display
12-hour mode	PM 5:00
24-hour mode	17:00



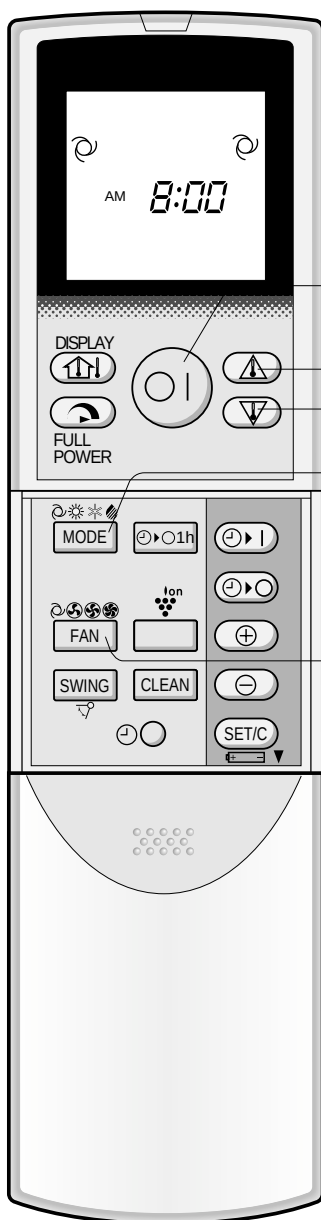
The PLASMACLUSTER and the SELF CLEAN buttons are provided only on models AY-XPM7CR/AY-XPM9CR/AY-XPM12CR.

- 1** To set to the 12-hour mode, press the CLOCK button once in the first step. To set to the 24-hour mode, press the CLOCK button twice in the first step.
- 2** Press the TIME ADVANCE or REVERSE button to set the current time.
 - Keep the button pressed to advance or reverse the time display quickly.
- 3** Press the SET/C button.
 - The colon (:) blinks to indicate that the clock is functioning.

NOTE:

- The current time cannot be set when the timer is operating.

BASIC OPERATION



The PLASMACLUSTER and the SELF CLEAN buttons are provided only on models AY-XPM7CR/AY-XPM9CR/AY-XPM12CR.

NOTES:

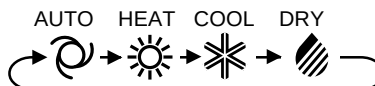
This air conditioner is a multi-type, and two (or three) indoor units are connected to one outdoor unit. When the setting mode differs among indoor unit(s), the indoor unit(s) operated later may not work.

- When the indoor unit(s) is/are operating in HEAT mode, the remaining unit(s) can not operate in COOL or DRY mode.
- When the indoor unit(s) is/are operating in COOL or DRY mode, the remaining unit(s) can not operate in HEAT mode.

When the mode of the indoor unit(s) later operated is/are different from those which is/are in operation, 4 seconds later, a long BEEP will be emitted and the temperature indicator on the indicator panel will indicate" -- " and the OPERATION lamp and TIMER lamp will blink alternately. This shows that the later operated unit(s) is/are not working. In such case, change the remote control's mode and send the same mode signal which the other indoor unit(s) is/are operating in. The BEEP will be emitted twice from the indoor unit(s) later operated, and the unit(s) will operate.

1

Press the MODE button to select the operation mode.



2

Press the ON/OFF button to start operation.

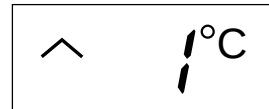
- The red OPERATION lamp () on the unit will light.

3

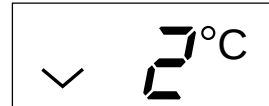
Press the THERMO. button to set the desired temperature.

- In the AUTO and DRY mode, the temperature can be changed in 1°C increments within the range of 2°C higher to 2°C lower from the temperature automatically determined by the air conditioner.
- In the COOL and HEAT modes, the temperature can be set within the range of 18 to 32°C.

(Example: 1°C higher)



(Example: 2°C lower)



4

Press the FAN button to set the desired fan speed.



- In the DRY mode, the fan speed is preset to AUTO and cannot be changed.

5

To turn off the unit, press the ON/OFF button again.

- The red OPERATION lamp () on the unit will turn off.

TIPS ABOUT AUTO MODE

In the AUTO mode, the temperature setting and mode are automatically selected according to the room temperature and outdoor temperature when the unit is turned on.

Modes and Temperature Settings

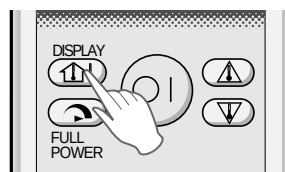
	0	10	18	28	34	outdoor temp. (°C)
26	Heat (24°C)	Heat (23°C)	Heat (22°C)	Cool (24°C)	Cool (25°C)	Cool (26°C)
indoor temp. (°C)			Dry (Room Temp. -2°C)			

the figures in () are temperature settings

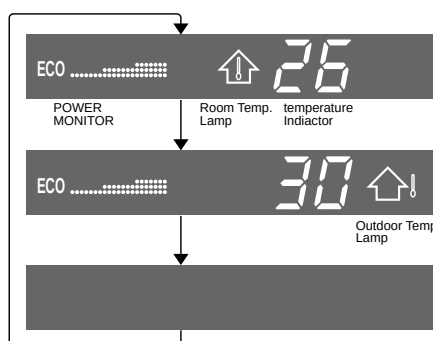
- During operation, if the outdoor temperature changes, the temperature settings will automatically slide as shown in the chart.
- Mode of the unit operated first will have priority over other unit(s) without reference to the chart.

TIPS ABOUT INDICATOR PANEL

The indicator panel will change each time you press the DISPLAY button in the following manner.



(AY-XPM7CR/AY-XPM9CR/AY-XPM12CR)

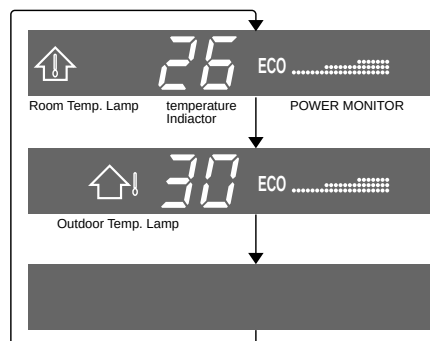


The room temperature and POWER MONITOR are displayed.

The outdoor temperature and POWER MONITOR are displayed.

No display.

(AY-XM7CR/AY-XM9CR/AY-XM12CR)



POWER MONITOR

When the room temperature or the outdoor temperature is displayed, the POWER MONITOR will light up in 4 levels for COOL and HEAT modes (3 levels for DRY mode), to indicate the operation power. When the air conditioner is operating at maximum power in the COOL and HEAT modes, "POWER" will light and "ECO" will turn off on the indicator panel.

NOTES:

- The displayed temperatures are rough estimates and may vary from the actual temperatures.
- Temperature display ranges
Room temperature: 0°C ~ 40°C (L is displayed when less than 0°C and H, when higher than 40°C)
Outdoor temperature: -9°C ~ 45°C (L is displayed when less than -9°C and H, when higher than 45°C)
- -- is displayed during the first 120 seconds of operation while the temperatures are being detected. (Temperature detection may more than 120seconds when other unit(s) is/are already being operated.)
- -- is displayed for 5 seconds when the unit is not in operation.

ADJUSTING THE AIR FLOW DIRECTION

VERTICAL AIR FLOW DIRECTION

The air flow direction is automatically preset in each mode as follows for optimum comfort:

COOL and DRY modes	Horizontal air flow
HEAT mode	Diagonal air flow

HOW TO ADJUST THE AIR FLOW DIRECTION

Press the SWING button on the remote control once.

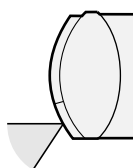
- The vertical adjustment louvre will change its angle continuously.

Press the SWING button again when the vertical adjustment louvre is at the desired position.

- The louvre will stop moving within the range shown in the diagram.
- The adjusted position will be memorized and will be automatically set to the same position when operated the next time.

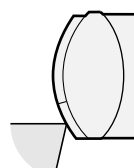
Adjustment range

COOL and DRY modes



The adjustment range is narrower the SWING range in order to prevent condensation from dripping.

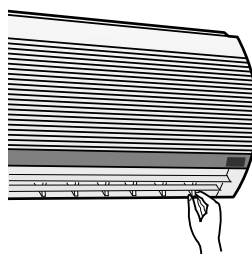
HEAT mode



The range is wide so the air flow can be directed toward the floor.

HORIZONTAL AIR FLOW DIRECTION

Hold the horizontal adjustment louvre as shown in the diagram and adjust the air flow direction.



CAUTION

Never attempt to adjust the vertical adjustment louvres manually.

- Manual adjustment of the vertical adjustment louvre can cause the unit to malfunction when the remote control is used for the adjustment.
- When the vertical adjustment louvre is positioned at the lowest position in the COOL or DRY mode for an extended period of time, condensation may result.

Do not adjust the horizontal adjustment louvre extremely to the right or left when operating the air conditioner with fan speed "SOFT" for an extended period of time.

Condensation may form on the louvres.

FULL POWER OPERATION

In this operation, the air conditioner works at maximum power to makes the room cool or warm so rapidly that you can use it just after you come home.



- 1 To activate the FULL POWER operation, press the FULL POWER button during operation.

- The remote control will display .
- The temperature display will go off.

TO CANCEL

Press the FULL POWER button again.

- FULL POWER operation will also be cancelled when the operation mode is changed, or when the unit is turned off.

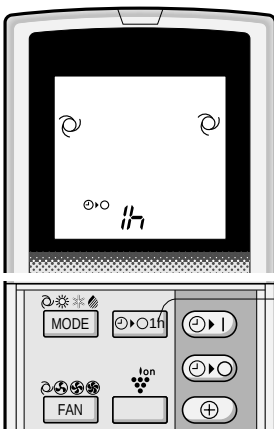
1

NOTE:

- You cannot set the temperature and fan speed during the FULL POWER operation.

ONE-HOUR OFF TIMER

When the ONE-HOUR OFF TIMER is set, the unit will stop operating after one hour.



- 1 Press the ONE-HOUR OFF TIMER button.

- The remote control displays " ".
- The orange TIMER lamp () on the unit will light up.
- The unit will stop operating after one hour.

TO CANCEL

Press the TIMER CANCEL (SET/C) button.

- The orange TIMER lamp () on the unit will turn off.

Or, turn the unit off by pressing the ON/OFF button.

- The red OPERATION lamp () and the orange TIMER lamp () on the unit will turn off.

1

The PLASMACLUSTER and the SELF CLEAN buttons are provided only on models AY-XPM7CR/AY-XPM9CR/AY-XPM12CR.

NOTES:

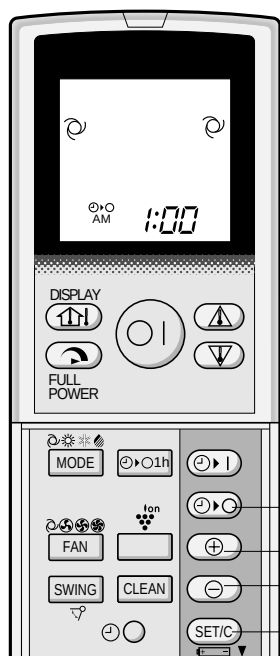
- The ONE-HOUR OFF TIMER operation has priority over TIMER ON and TIMER OFF operations.
- When the ONE-HOUR OFF TIMER is set while the unit is not operating, the unit will operate for an hour with the formerly set condition.
- If you wish to operate the unit for another hour before the ONE-HOUR OFF TIMER activates, press the ONE-HOUR OFF TIMER button again during operation.
- If TIMER ON and/or TIMER OFF are set, TIMER CANCEL button cancels every setting.

TIMER OPERATION

NOTE:

Before setting the timer, make sure the clock is properly set with the current time.

TIMER OFF



- 1** Press the TIMER OFF () button.
- 2** The TIMER OFF indicator will blink; press the TIME ADVANCE or REVERSE buttons to set the desired time. (The time can be set in 10-minute increments.)
- 3** Point the remote control at the signal receiver window on the unit and press the TIMER SET (SET/C) button.
 - The orange TIMER lamp () on the unit will light.
 - The unit will generate a beep when it receives the signal.

The PLASMACLUSTER and the SELF CLEAN buttons are provided only on models AY-XPM7CR/AY-XPM9CR/AY-XPM12CR.

TIPS ABOUT TIMER OFF OPERATION

When the TIMER OFF mode is set, the temperature setting is automatically adjusted to prevent the room from becoming excessively hot or too cold while you sleep. (Auto Sleep function)

COOL/DRY MODE:

- One hour after the time operation begins, the temperature setting rises 1°C higher than the original thermostat setting.

HEAT MODE:

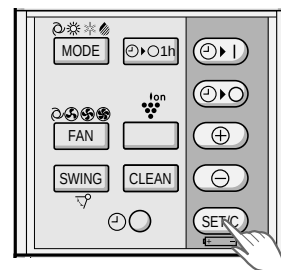
- One hour after the timer operation begins, the temperature setting drops 3°C lower than the original thermostat setting.

TO CANCEL TIMER MODE

Press the TIMER CANCEL (SET/C) button.

- The orange TIMER lamp () on the unit will turn off.
- The current clock time will be displayed on the remote control.

The PLASMACLUSTER and the SELF CLEAN buttons are provided only on models AY-XPM7CR/AY-XPM9CR/AY-XPM12CR.



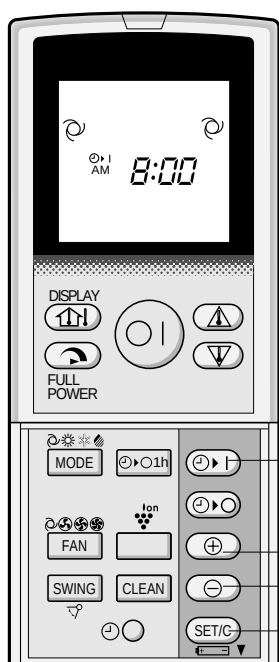
NOTE:

- If any TIMER ON, TIMER OFF and ONE-HOUR OFF TIMER are set, the TIMER CANCEL button cancels all settings.

TO CHANGE TIME SETTING

Cancel the TIMER setting first, then set it again.

TIMER ON



- 1** Press the TIMER ON (⌚) button.
- 2** The TIMER ON indicator will blink; press the TIME ADVANCE or REVERSE buttons to set the desired time. (The time can be set in 10-minute increments.)
- 3** Point the remote control at the signal receiver window on the unit and press the TIMER SET (SET/C) button.
 - The orange TIMER lamp (⌚) on the unit will light.
 - The unit will generate a beep when it receives the signal.
- 4** Select the operation condition.
 - The unit will turn on prior to the set time to allow the room to reach the desired temperature by the programmed time. (Awaking function)
 - If unit(s) is/are operated in one mode while TIMER ON is set with another unit in different mode, the timer may not activate the required operation.

The PLASMACLUSTER and the SELF CLEAN buttons are provided only on models AY-XPM7CR/AY-XPM9CR/AY-XPM12CR.

COMBINED USE OF ON AND OFF TIMERS

You can use the ON and OFF timers in combination.



Example:

To stop operation at 11:00 p.m. and resume operation (With the same mode and temperature settings) to bring the room temperature to the desired level by 7:00 a.m.

- 1** Set the TIMER OFF to 11:00 p.m. during operation.
- 2** Set the TIMER ON to 7:00 a.m.

The arrow (▼ or ▲) between the TIMER ON indicator and the TIMER OFF indicator shows which timer will activate first.

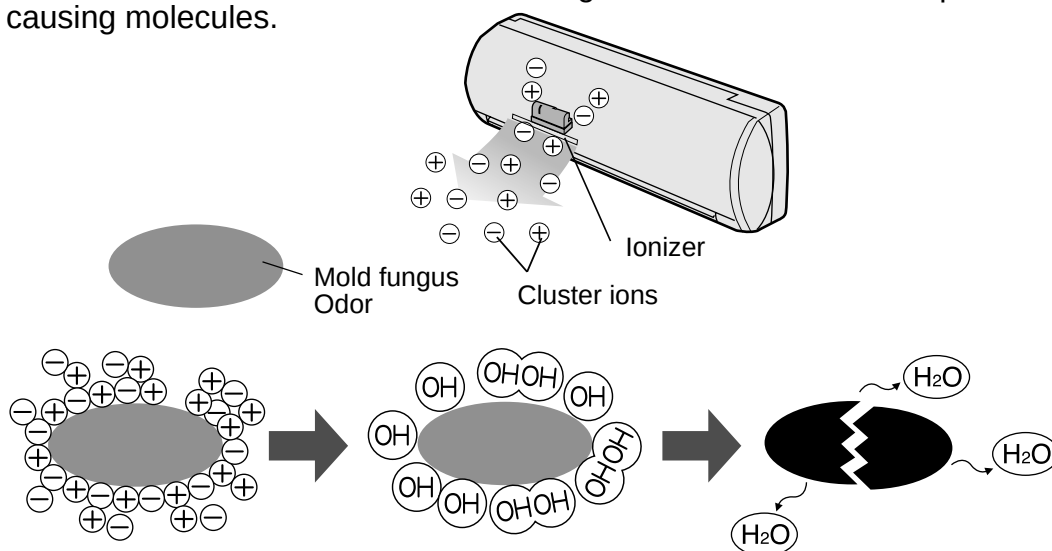
NOTES:

- You cannot programme the ON-TIMER and OFF-TIMER to operate the unit at different temperatures or other settings.
- Either timer can be programmed to activate prior the other.

TIPS ABOUT PLASMACLUSTER OPERATION

(only for models AY-XPM7CR/AY-XPM9CR/AY-XPM12CR)

The ionizer inside the air conditioner will release cluster ions, which are collective mass of positive and negative ions, into the room. The cluster ions reduce airborne mold fungus and deodorize/decompose odor-causing molecules.



AIR CLEAN OPERATION

Cluster ions released into the air will reduce airborne mold fungus and deodorize/decompose odor-causing molecules.

REFRESHING OPERATION

It is said that plenty of negative ions exist in places such as waterfalls or forests in natural environment. In this operation mode, negative ions will be released in an increased rate, in order to bring the room air close to this condition.

PLASMACLUSTER AUTO OPERATION

Dust sensor and odor sensor will detect foul air in the room.

Air Clean Operation will be performed for one minute after the air conditioner is operated to detect foul air.

Air Clean Operation and Refreshing Operation will be selected and be performed automatically depending on the air foul degree.

Air Clean Operation will be performed when the air is detected to be foul, Refreshing Operation will be performed when the air is clean.

SELF CLEAN OPERATION

Plasmacluster Operation will be performed with FAN or HEAT mode, in order to reduce the growth of mold fungus, and dry inside of the air conditioner unit.

Utilize the operation at seasonal change over terms.

Mold fungus already grown can not be eliminated by this operation.

TIPS ABOUT DUST SENSOR AND ODOR SENSOR

What does Dust Sensor react to?

- Dust sensor reacts to mold fungus, plants/flowers pollen, dead ticks, dust, tobacco smoke etc.

What does Odor Sensor react to?

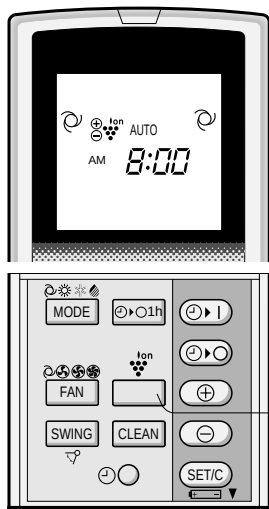
- Odor Sensor reacts to tobacco smoke, motor exhaust, odor emitted from animals, etc.

Dust and Odor Sensor also may react to vapour of insecticides, cosmetics, alcohol, chemicals and the like, and to extreme change of temperature/humidity.

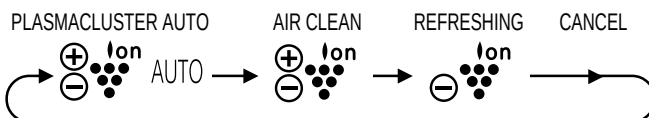
PLASMACLUSTER OPERATION

(only for models AY-XPM7CR/AY-XPM9CR/AY-XPM12CR)

You can choose PLASMACLUSTER AUTO OPERATION, AIR CLEAN OPERATION or REFRESHING OPERATION



- 1 When the unit is in operation, press the PLASMACLUSTER button to select the mode.



- In the AIR CLEAN operation, the blue PLASMACLUSTER lamp on the unit will light up.
- In the REFRESHING operation, the green PLASMACLUSTER lamp on the unit will light up.

TO CANCEL

Press the PLASMACLUSTER button until PLASMACLUSTER symbol on the remote control display goes off.

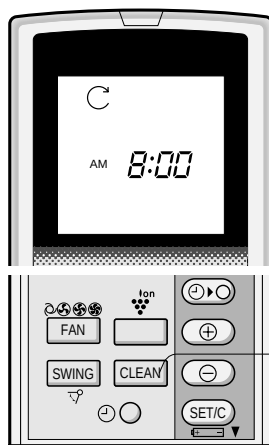
- The PLASMACLUSTER lamp on the unit will turn off.

NOTES:

- Setting of the PLASMACLUSTER operation will be memorized and will operate in the same mode, the next time you turn on the air conditioner.
- To turn off the PLASMACLUSTER lamp, press the DISPLAY button.
- When the PLASMACLUSTER button is pressed while the unit is not operating, the PLASMACLUSTER operation will be performed without accompanying air conditioning mode (eg. HEATING or COOLING). The mode symbol of the remote control will go off and the fan speed can not be set AUTO. At this time, you may feel HEATING is performed with units in other rooms. Indoor fan will decrease its rotating speed and will turn ON and OFF depending on the room temperature.

SELF CLEAN OPERATION

(only for models AY-XPM7CR/AY-XPM9CR/AY-XPM12CR)



- 1 Press the SELF CLEAN button when the unit is not operating.

- The remote control displays "C".
- The red OPERATION lamp () and the blue PLASMACLUSTER lamp on the unit will light up.
- The unit will stop operation after forty minutes.
- The remaining operation time will be indicated on the TEMPERATURE INDICATOR of the indoor unit in minute decrements.

TO CANCEL

Press the SELF CLEAN button.

Or, turn the unit off by pressing the ON/OFF button.

- The red OPERATION lamp (), the blue PLASMACLUSTER lamp and the TEMPERATURE INDICATOR on the unit will turn off.

NOTE:

- You cannot set the temperature, fan speed, air flow direction or timer setting during the SELF CLEAN operation.

AUXILIARY MODE

Use this mode when the remote control is not available.

TO TURN ON

Lift the front panel of the indoor unit and press the AUX. button on the operation panel.

- The red OPERATION lamp () on the unit will light and the unit will start operating in the AUTO mode.
- The fan speed and temperature setting are set to AUTO.

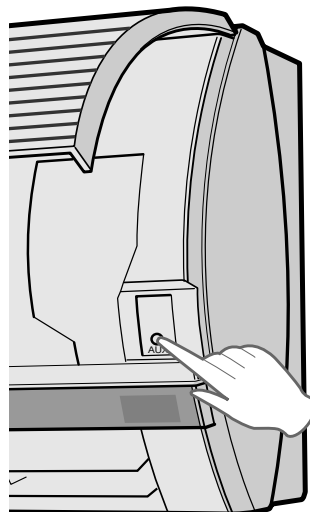
TO TURN OFF

Press the AUX. button on the operation panel again.

- The red OPERATION lamp () on the unit will turn off.

NOTE:

If the AUX. button is pressed during normal operation, the unit will turn off.



OPTION KIT (only for models AY-XM7CR/AY-XM9CR/AY-XM12CR)

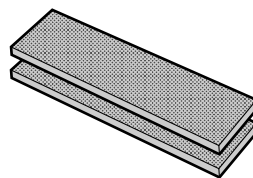
Air Purifying Filter

During operation of the air conditioner, the air purifying filter removes dust and tobacco smoke from the air and discharges clean air.

The apatite antibacterial material used in the air purifying filter suppresses activities of adsorbed viruses and other germs.

The replacement period for the disposable type is approximately 3~6 months.

Contact your dealer for the purchase of this option.

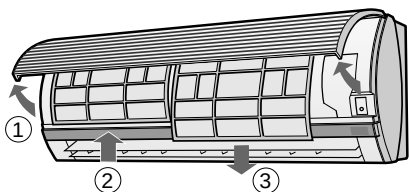


Type AZ-F900B

MAINTENANCE (for models AY-XM7CR/AY-XM9CR/AY-XM12CR)

Be sure to turn off the air conditioner and turn off the circuit breaker before performing any maintenance.

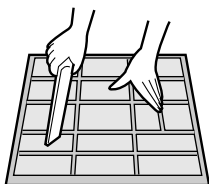
CLEANING THE FILTERS The air filters should be cleaned every two weeks.



1 TURN OFF THE UNIT

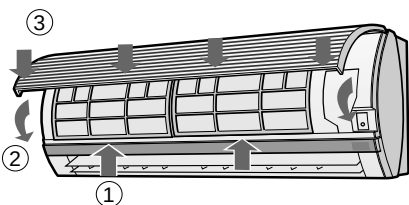
2 REMOVE THE FILTERS

- ① Lift the open panel.
- ② Push the air filters up slightly to unlock them.
- ③ Pull the air filters down to remove them.



3 CLEAN THE FILTERS

Use a vacuum cleaner to remove dust. If the filters are dirty, wash them with warm water and a mild detergent. Dry filters in the shade before reinstalling.



4 REINSTALL THE FILTERS

- ① Reinstall the filters in the original positions.
- ② Close the front panel.
- ③ Push the arrow-marked of the panel firmly to lock it in place.

ENGLISH

CLEANING THE UNIT AND THE REMOTE CONTROL

- Wipe them with a soft cloth.
- Do not directly splash or pour water on them. We can cause electrical shock or equipment damage.
- Do not use hot water, thinner, abrasive powders or strong solvents.

MAINTENANCE AFTER AIR CONDITIONER SEASON

- 1** Operate the unit in the COOL mode, temperature setting 32°C, for about half a day to allow the mechanism to thoroughly dry.
- 2** Stop the operation.
Turn off the circuit breaker, if you have one exclusively for the air conditioner.
- 3** Clean the filters, then reinstall them.

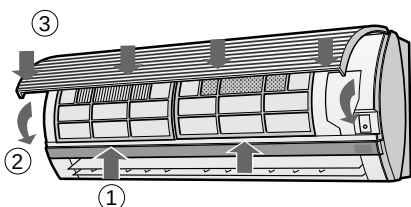
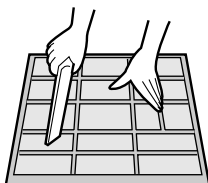
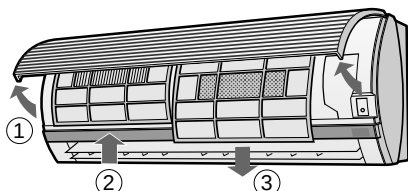
MAINTENANCE BEFORE AIR CONDITIONER SEASON

- 1** Make sure that the air filters are not dirty.
- 2** Make sure that nothing obstructs the air inlet or outlet.
- 3** Check the outdoor mounting rack periodically for wear and to make sure it is firmly in place.

MAINTENANCE (for models AY-XPM7CR/AY-XPM9CR/AY-XPM12CR)

Be sure to turn off the air conditioner and turn off the circuit breaker before performing any maintenance.

CLEANING THE FILTERS The air filters should be cleaned every two weeks.



- 1** TURN OFF THE UNIT
- 2** REMOVE THE FILTERS
 - ① Lift the open panel.
 - ② Push the air filters up slightly to unlock them.
 - ③ Pull the air filters down to remove them.
- 3** TAKE OFF THE DEODORANT FILTER AND THE DUST COLLECTION FILTER FROM THE AIR FILTERS
- 4** CLEAN THE FILTERS

Use a vacuum cleaner to remove dust. If the filters are dirty, wash them with warm water and a mild detergent. Dry filters in the shade before reinstalling.
- 5** REINSTALL THE DEODORANT FILTER AND THE DUST COLLECTION FILTER
- 6** REINSTALL THE FILTERS
 - ① Reinstall the filters in the original positions.
 - ② Close the front panel.
 - ③ Push the arrow-marked of the panel firmly to lock it in place.

CLEANING THE UNIT AND THE REMOTE CONTROL

- Wipe them with a soft cloth.
- Do not directly splash or pour water on them. We can cause electrical shock or equipment damage.
- Do not use hot water, thinner, abrasive powders or strong solvents.

MAINTENANCE AFTER AIR CONDITIONER SEASON

- 1** Operate the unit in the SELF CLEAN OPERATION to allow the mechanism to thoroughly dry.
- 2** Stop the operation.

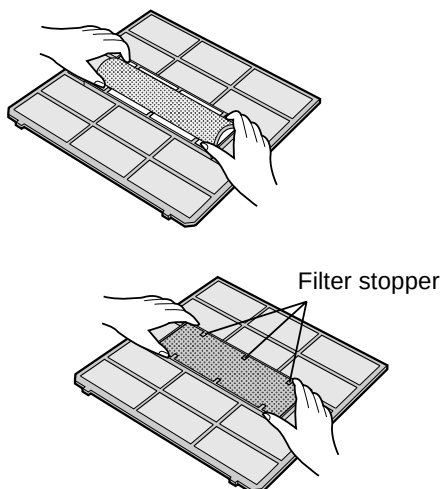
Turn off the circuit breaker, if you have one exclusively for the air conditioner.
- 3** Clean the filters, then reinstall them.

MAINTENANCE BEFORE AIR CONDITIONER SEASON

- 1** Make sure that the air filters are not dirty.
- 2** Make sure that nothing obstructs the air inlet or outlet.
- 3** Check the outdoor mounting rack periodically for wear and to make sure it is firmly in place.

CLEANING THE DEODORANT FILTER (GREEN)

The filter should be cleaned every 3~6 months



- 1 REMOVE THE AIR FILTERS**
- 2 CLEAN THE DEODORANT FILTER**
 - 1** Take off the deodorant filter from the air filters.
 - 2** Soak the deodorant filter in mild detergent dilution for 10 to 20 minutes.
Rinse thoroughly with water, dry completely under sunlight.
 - 3** Set the clean deodorant filter under the filter stoppers located on the air filters.
- 3 REINSTALL THE AIR FILTERS**

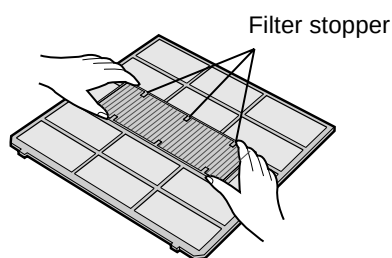
NOTE:

- Replacement is necessary at the interval of 3 years, as the deodorising effect will deteriorate.
The new filters are available at your nearest dealer.

Replacement filter: Type AZ-F910C

CHANGING THE DUST COLLECTION FILTER (GRAY)

The filter should be changed every 3~6 months



- 1 REMOVE THE AIR FILTERS**
- 2 CHANGE THE DUST COLLECTION FILTER**
 - 1** Take off the old dust collection filter from the air filters.
 - 2** Set the new dust collection filter, the black side facing upward, under the filter stoppers located on the air filters.
- 3 REINSTALL THE AIR FILTERS**

NOTE:

- The dirty dust collection filter is not washable for reuse.
The new filters are available at your nearest dealer.

Replacement filter: Type AZ-F900C

BEFORE CALLING FOR SERVICE

The following conditions do not denote equipment malfunctions

UNIT DOES NOT OPERATE The unit will not operate if it is turned on immediately after it is turned off. The unit will not operate immediately after the mode is changed. This is to protect the internal mechanisms. Wait 3 minutes before operating the unit.	WATER VAPOUR • In the COOL and DRY operation, water vapour can sometimes be seen at the air outlet due to the difference between the room air temperature and the air discharged by the unit. • In the HEAT operation, water vapour may flow out of the outdoor unit during de-icing.
UNIT DOES NOT SEND OUT WARM AIR The unit is preheating or de-icing.	THE OUTDOOR UNIT DOES NOT STOP After stopping the operation, the outdoor unit will rotate its fan for about a minute to cool down the unit.
ODORS Carpet and furniture odors that entered into the unit and the air conditioner's inner component odors at the early stage of installation may be sent out from the unit.	
CRACKING NOISE The unit may produce a cracking noise. This sound is generated by the friction of the front panel and other components expanding or connecting due to a temperature change.	UNIT DOES NOT OPERATE IN YOUR REQUESTED MODE • When one indoor unit is operating in COOL or DRY mode, you can not operate the other unit in HEAT mode. (4 seconds later, a long BEEP will be emitted, and the temperature indicator on the indicator panel will indicate "- -" and the OPERATION lamp and TIMER lamp will blink alternately.) • When one indoor unit is operating in HEAT mode, you can not operate the other unit in COOL nor DRY mode. (4 seconds later, a long BEEP will be emitted, and the temperature indicator on the indicator panel will indicate "- -" and the OPERATION lamp and TIMER lamp will blink alternately.)
SWISHING NOISE The soft, swishing noise is the sound of the refrigerant flowing inside the unit.	
INDOOR UNIT BECOMES WARM EVEN WHEN IDLE This is because the refrigerant also flows through the idle indoor unit's pipes when the other unit is operated in HEAT mode.	

(only for models AY-XPM7CR/AY-XPM9CR/AY-XPM12CR)

ODOR EMITTED FROM THE PLASMACLUSTER AIR OUTLET This is the smell of ozone generated from the ionizer. Density of the ozone is very little, having no adverse effect over your health. The ozone released into the air will decompose soon, and its density in the room will not increase.	A LOW BUZZ NOISE EMITTED This is a sound emitted when the unit is generating cluster ions.
INDOOR UNIT BECOMES WARM EVEN WHEN NOT DURING HEATING OPERATION When the PLASMACLUSTER button is pressed while the unit is not operating, the PLASMACLUSTER operation will be performed without accompanying air conditioning mode (eg. HEATING or COOLING). At this time, you may feel warm air coming out from the unit air outlet if HEATING is performed with units in other rooms. Indoor fan will decrease its rotating speed and will turn ON and OFF depending on the room temperature.	UNIT DOES NOT SEND OUT AIR (PLASMACLUSTER operation without accompanying air conditioning mode, SELF CLEAN operation) • The other unit(s) is/are de-icing.
	During PLASMACLUSTER AUTO OPERATION, the air conditioner operates in the REFRESHING OPERATION even when there is odor in the room. • In case for example, when the room is full of tobacco smokes before the air conditioner is turned on, the ODOR SENSOR may become unreactive.

If the unit appears to be malfunctioning, check the following points before calling for service.

IF THE UNIT FAILS TO OPERATE

Check to see if the circuit breaker has tripped or the fuse has blown.

IF THE UNIT FAILS TO COOL (OR HEAT) THE ROOM EFFECTIVELY

Check the filters. If dirty, clean them.

Check the outdoor unit to make sure nothing is blocking the air inlet or outlet.

Check the thermostat is proper setting.

Make sure windows and doors are closed tightly.

A large number of people in the room can prevent the unit from achieving the desired temperature.

Check whether any heat-generating appliances are operating in the room.

IF THE UNIT FAILS TO RECEIVE THE REMOTE CONTROL SIGNAL

Check whether the remote control batteries have become old and weak.

Try to send the signal again with the remote control pointed properly towards the unit's signal receiver window.

Check whether the remote control batteries are installed with the polarities properly aligned.

Please call for service when OPERATION Lamp, TIMER Lamp and TEMPERATURE INDICATOR on the indicator panel blink.

SHARP CORPORATION
OSAKA, JAPAN

Printed in Thailand

TINSEA309JBRZ 02BO (TL) ①